## In the Claims

Please cancel claims 1-14 without prejudice.

Please add claims 15-31 as follows:

- 15. (New) A method of producing lime water comprising:
  - deionising dilution water by membrane filtration, distillation or an ion exchange resin;
  - b. adding silicate ions to the dejonised water; and
  - c. mixing milk of lime with the water to form lime water.
- 16. (New) The method of claim 15 wherein said silicates are selected from the group consisting of sodium silicate and potassium silicate.
- 17. (New) The method of claim 16 wherein the silicate ions are sodium silicate.
- 18. (New) The method of claim 15 wherein the dilution water is deionised by membrane de; A. Subjected to a nano-filtration or a filtration by reverse osmosis.
- 19. (New) The method of claim 15 wherein the milk of lime and dilution water are mixed in a saturator and wherein the silicate ions are introduced into the saturator.
- 20. (New) The method of claim 15 wherein the silicate ions are added to the deionised dilution water such that the resulting mixture has a concentration of 5 mg/l to 40 mg/l of silicate ions.

- 21. (New) The method of claim 15 wherein the method is carried out in a system utilizing a saturator having a series of inlet lines and a silicate ion inlet line for directing silicate ions into the dilution water.
- 22. (New) The method and system of claim 21 including a mixer for mixing the silicate ions with the dilution water.
- 23. (New) The method and system of claim 22 wherein the mixer is a static mixer.
- 24. (New) The method and system of claim 21 including means for measuring the quality of lime water produced in the saturator and means to vary the silicate ion dosage.
- 25. (New) The method and system of claim 21 including a device for measuring the lime water quality where the device is taken from the group consisting of a turbidimeter, a pH meter, and a conductivity meter.
- 26. (New) The method of claim 15 including combining carbon dioxide and the lime water and using the combined carbon dioxide and lime water to remineralize water.
- 27. (New) The method of claim 15 wherein the addition of the silicate ions causes solids in the lime water to precipitate.
- 28. (New) The method of claim 27 wherein the addition of the silicate ions causes precipitation of CaH<sub>2</sub>SiO<sub>4</sub>.
- 29. (New) A system for producing lime water comprising: a saturator; an inlet for directing milk of lime into the saturator; an inlet for directing deionised dilution water into the saturator; a

sludge outlet associated with the saturator; a deioniser for deionising the dilution water prior to the water being directed into the saturator; and a silicate ion inlet associated with the saturator for directing silicate ions into the saturator.

- 30. (New) The system of claim 29 wherein the deioniser comprises a nano-filter.
- 31. (New) The system of claim 29 wherein the deioniser comprises a membrane filter.